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# 1 [Comprehension through navigation and interaction: A tactile web browser for the visually disabled](#)

Martin Rotard, Sven Knödler, Thomas Ertl

 September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and multimedia HYPERTEXT '05**

Publisher: ACM Press

 Full text available:  Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The dissemination of information available through the World Wide Web makes universal access more and more important and supports visually disabled people in their everyday life. In this paper we present a new approach for visually disabled people to browse and interact with web pages. Up to now graphical information is mostly ignored in transformations for visually disabled people. We propose a web browser, which uses a transformation schema to render web pages on a tactile graphics display. Bi ...

**Keywords:** adaptive hypertext, multi-modal interfaces, tactile graphics, universal access

# 2 [Highly personalized information delivery to mobile clients](#)

Bahattin Ozen, Ozgur Kilic, Mehmet Altinel, Asuman Dogac

 November 2004 **Wireless Networks**, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

 Full text available:  Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The inherent limitations of mobile devices necessitate information to be delivered to mobile clients to be highly personalized according to their profiles. This information may be coming from a variety of resources like Web servers, company intranets, email servers. A critical issue for such systems is scalability, that is, the performance of the system should be in acceptable limits when the number of users increases dramatically. Another important issue is being able to express highly perso ...

**Keywords:** information delivery to mobile devices, personalization, query indexing, querying XML documents, user profiles.


# 3 [SDLP + STARTS = SDARTS a protocol and toolkit for metasearching](#)

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano

 January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital**


**libraries****Publisher:** ACM PressFull text available:  [pdf\(301.52 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe how we combined SDLIP and STARTS, two complementary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressive enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

- 4  [Document authoring, production and management: Checking marked-up documentation for adherence to site-specific standards](#)


S. N. I. Mount, R. M. Newman, R. J. Low

September 2005 **Proceedings of the 23rd annual international conference on Design of communication: documenting & designing for pervasive information SIGDOC '05**

**Publisher:** ACM PressFull text available:  [pdf\(178.16 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Marked-up text (e.g. HTML and XML) is the format of choice for the delivery of end-user information in pervasive environments. Consistent style and structure of a set of pages can greatly aid their usability and this paper presents a tool called *Exstatic* to automatically check that a hyperdocument follows site-specific conventions. We describe an example of such an analysis for a live document written in HTML 4.01.

**Keywords:** HTML, exstatic, standards, static checking

- 5  [Paper session IR-4 \(information retrieval\): machine learning: ViPER: augmenting automatic information extraction with visual perceptions](#)


Kai Simon, Georg Lausen

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

**Publisher:** ACM PressFull text available:  [pdf\(484.44 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper we address the problem of unsupervised Web data extraction. We show that unsupervised Web data extraction becomes feasible when supposing pages that are made up of repetitive patterns, as it is the case, e.g., for search engine result pages. Hereby the extraction rules are generated automatically without any training or human interaction, by means of operating on the DOM tree respectively the flat tag token sequence of a single page. Our contribution to automatic data extraction thr ...

**Keywords:** data extraction, data record alignment, visual features

- 6  [An embedded domain-specific language for type-safe server-side web scripting](#)

Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

**Publisher:** ACM PressFull text available:  [pdf\(336.60 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive

guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...


**Keywords:** Interactive Web services, Web programming

## 7 Converting e-books to open formats

Marco Fioretti


June 2005 **Linux Journal**, Volume 2005 Issue 134

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(17.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Regular books don't depend on one device-why shouldn't e-books be convenient to read anywhere too?

## 8 Document analysis: NCL 2.0: integrating new concepts to XML modular languages

 Heron V. O. Silva, Rogério F. Rodrigues, Luiz Fernando G. Soares, Débora C. Muchaluat Saade

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**


**Publisher:** ACM Press

Full text available:  [pdf\(243.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the main new features of Nested Context Language (NCL) version 2.0. NCL 2.0 is a modular and declarative hypermedia language, whose modules can be combined to other languages, such as SMIL, to provide new facilities. Among the NCL 2.0 new features, we can highlight the support for handling hypermedia relations as first-class entities, through the definition of hypermedia connectors, and the possibility of specifying any semantics for a hypermedia composition, using the con ...

**Keywords:** NCL, SMIL, XConnector, XTemplate, composition template, framework for parsing and processing XML, hypermedia connector

## 9 Interactive mathematics via the Web using MathML

 Francis J. Wright


June 2000 **ACM SIGSAM Bulletin**, Volume 34 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

MathML is a mathematical markup language intended for displaying mathematics in web browsers. At present, it can be used to display mathematics generated dynamically in response to interactive queries only if the browsing and generating facilities are chosen carefully. This paper examines the background and possible options, and describes some of the details of the use of MathML to display the output from a web-based demonstration of an ordinary differential equation solver running in REDUCE ...

## 10 Grammar-based analysis of string expressions

 Peter Thiemann

January 2005 **Proceedings of the 2005 ACM SIGPLAN international workshop on Types in languages design and implementation**

**Publisher:** ACM Press

Full text available:  [pdf\(244.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We specify a polymorphic type system for an applied lambda calculus that refines the string type with a subtype hierarchy derived from language containment. It enables us to

find a language for each string-type expression such that the value of the expression is a member of that language. Type inference for this system infers language inclusion constraints that can be viewed as a context-free grammar with a nonterminal for each string-valued expression. Then we present two algorithms that solve I ...

**Keywords:** constraints, string expression analysis, type inference

# 11 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Möller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

**Publisher:** ACM Press

Full text available:  pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwlg> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

**Keywords:** Interactive Web services, XML, data-flow analysis

# 12 Document authoring, markup and manipulation 2: Towards active web clients

Vincent Quint, Irène Vatton

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

**Publisher:** ACM Press

Full text available:  pdf(382.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent developments of document technologies have strongly impacted the evolution of Web clients over the last fifteen years, but all Web clients have not taken the same advantage of this advance. In particular, mainstream tools have put the emphasis on accessing existing documents to the detriment of a more cooperative usage of the Web. However, in the early days, Web users were able to go beyond browsing and to get more actively involved. This paper presents the main features needed to make Web ...

**Keywords:** XML documents, authoring, compound documents, style languages, web user agent

# 13 XML query and programming languages: XJ: facilitating XML processing in Java

Matthew Harren, Mukund Raghavachari, Oded Shmueli, Michael G. Burke, Rajesh

Bordawekar, Igor Pechtchanski, Vivek Sarkar

May 2005 **Proceedings of the 14th international conference on World Wide Web**


**Publisher:** ACM Press

Full text available:  pdf(293.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The increased importance of XML as a data representation format has led to several proposals for facilitating the development of applications that operate on XML data. These proposals range from runtime API-based interfaces to XML-based programming languages. The subject of this paper is XJ, a research language that proposes novel mechanisms for the integration of XML as a first-class construct into Java™. The design goals of XJ distinguish it from past work on integrating XML support into ...


**Keywords:** Java, XML, language design

14 CDuce: an XML-centric general-purpose language

 Véronique Benzaken, Giuseppe Castagna, Alain Frisch

August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming ICFP '03**, Volume 38 Issue 9

**Publisher:** ACM Press

Full text available:  pdf(242.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

*We present the functional language CDuce, discuss some design issues, and show its adequacy for working with XML documents. Distinctive features of CDuce are a powerful pattern matching, first class functions, overloaded functions, a very rich type system (arrows, sequences, pairs, records, intersections, unions, differences), precise type inference for patterns and error localization, and a natural interpretation of types as sets of values. We also outline some important implementation issue ...*


**Keywords:** CDuce, XML, XML-processing, type systems

15 At the forge: XMLC


Reuven M. Lerner

August 2001 **Linux Journal**, Volume 2001 Issue 88

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  html(23.36 KB) Additional Information: [full citation](#), [index terms](#)

16 Web mining and clustering: Stylistic and lexical co-training for web block classification

 Chee How Lee, Min-Yen Kan, Sandra Lai

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**


**Publisher:** ACM Press

Full text available:  pdf(349.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many applications which use web data extract information from a limited number of regions on a web page. As such, web page division into blocks and the subsequent block classification have become a preprocessing step. We introduce PARCELS, an open-source, co-trained approach that performs classification based on separate stylistic and lexical views of the web page. Unlike previous work, PARCELS performs classification on fine-grained blocks. In addition to table-based layout, the system handles ...

**Keywords:** PARCELS, co-training, lexical and stylistic learners, web page block classification, web page division

17 WME: towards a web for mathematics education

 Paul S. Wang, Norbert Kajler, Yi Zhou, Xiao Zou

August 2003 **Proceedings of the 2003 international symposium on Symbolic and algebraic computation**

**Publisher:** ACM Press


Full text available:  pdf(133.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Reported is an approach for *Web-based Mathematics Education* (WME). The WME

framework is a distributed system that aims to create a *Web for mathematics education*. Components of the WME framework include the *Mathematics Education Markup Language* (MeML) for page markup, regular Web servers to deliver pages, WME Page Processors to enable common Web browsers to receive MeML pages, and a variety of WME services (mathematical and educational) to supply power and interactivity to Me ...

**Keywords:** MeML, WME, education, markup, mathematics, mathematics education markup protocol, mathematics education service language, web, web-based mathematics education

# 18 Industrial: Delivering mobile enterprise applications on iMMS framework

 Jun Shen, Pei Sun, Changlie Guo, Ying Yin, Song Song

May 2005 **Proceedings of the 6th international conference on Mobile data management MEM '05**


**Publisher:** ACM Press

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile messaging services like SMS, MMS and wireless instant messaging services have become the major revenue source of the wireless data services. Compared with the online web access model, messaging access is more preferred in the wireless environment because messaging systems work in an asynchronous way and can tolerate intermittent connectivity. Current mobile messaging focuses on consumer applications, e.g., person-to-person communication. To leverage mobile message usage in mobile enterpri ...


**Keywords:** interactive multimedia messaging service, messaging programming model, mobile enterprise application

# 19 Taxonomy of XML schema languages using formal language theory

 Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi

November 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 4


**Publisher:** ACM Press

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework to study three classes of tree languages (local, single-type, and regular); (2) classification and comparison of schema languages (DTD, W3C XML Schema, and RELAX NG) based on these classes; (3) efficient document validation algorithms for these cla ...

**Keywords:** XML, interpretation, schema, tree automaton, validation

# 20 Effective Web data extraction with standard XML technologies

 Jussi Myllymaki

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(198.81 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** crawling, data extraction, deep Web, semistructured data, wrappers

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